

Detection of multiple articles.

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 G06K7/08; G06K7/10; G06K17/00; G07C9/00;
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 G07G3/00B; G07G3/00C; G08B13/24B; G08B13/24B6;
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Also published as:

US5519381 (A1)
 JP6223092 (A)
 JP2003318776 (A)
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Abstract of EP0598624

An identification system comprises an interrogator and a plurality of transponders. The interrogator includes a transmitter which transmits at least two independent interrogation signals to the transponders, and a receiver for receiving response signals from the transponders. The interrogator also includes processor means for identifying the transponders from data in the received response signals. Each transponder comprises receiving means, a code generator, and transmitter means connected to the code generator. On receipt of at least one of the transmitted interrogation signals the transponder transmits a response signal containing data which identifies it. The interrogation signals may be transmitted continuously or intermittently. In a preferred embodiment, the interrogation signals are relatively narrow bandwidth signals at different frequencies. The receiving means of each transponder has a relatively broad reception bandwidth so that the transponder is responsive to one or more of the interrogation signals.

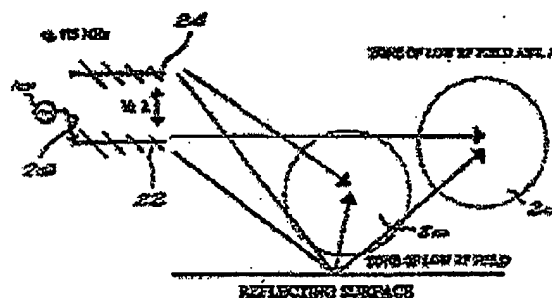


Figure 2.